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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of:

Henning Groll et al.

Serial No. 10/688,343

Filed October 17, 2003

SYSTEM AND METHOD FOR
ANALYTE MEASUREMENT USING
AC EXCITATION

Before the Examiner

Not Yet Assigned

Group Art Unit 1743

February 10, 2005

INFORMATION DISCLOSURE STATEMENTCommissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure in accordance with 37 C.F.R. §1.56, Applicant wishes to bring to the attention of the Examiner the items of information listed on the enclosed Information Disclosure Citation Form. This information has not been previously submitted in this application, and has not been heretofore cited previously by the Examiner. Copies of all foreign patent documents and non-patent literature are enclosed in accordance with 37 CFR 1.98(a). Copies of cited U.S. patents and patent applications are not enclosed pursuant to 37 CFR 1.491(b).

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Troy J. Cole

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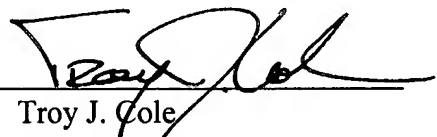
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For items of information contained in this Statement that are not in the English language, under §1.98(a)(3)(i) these items are understood to be relevant in that they relate to biosensors and were included in the results of searches conducted on behalf of Applicants.

The filing of this Information Disclosure Statement shall not be construed as an admission that the information cited is, or is considered to be, material to patentability as defined in §1.56(b).

This Statement is being submitted prior to the mailing of any Office Action on the merits. It is believed that no fee is required for consideration of the submitted items. However, should any fees be deemed required, the Commissioner is authorized to charge such fees to Deposit Account No. 23-3030, but is not to include payment of issue fees.

Respectfully submitted

By: 
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 38

Complete if Known

Application Number	10/688,343
Filing Date	October 17, 2003
First Named Inventor	David W. BURKE
Group Art Unit	1743
Examiner Name	
Attorney Docket Number	7404-553

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		3,526,480	09/01/1970	Findl et al.	
		3,551,295	12/29/1970	Dyer	
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		3,838,033	09/24/1974	Mindt et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ -Number ² -Kind Code ⁵ (if known)				
		AU 737 787	08/30/2001	Batman et al.		
		DE 36 43 263	07/07/1988	Hommel Host		
		DE 40 11 428 A1	11/29/1990	Kühn et al.		
		DE 298 14 997 U1	08/03/1993	LRE		
		DE 199 36 693	02/08/2001	LRE		
		EP 0 010 456	04/30/1980	Columbus		
		EP 0 034 049	08/19/1981	Columbus		
		EP 0 057 110	08/04/1982	Columbus		

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		4,065,263	12/27/1977	Woodbridge, III	
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		4,297,569	10/27/1981	Flies	
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		EP 0 073 056 A2	03/02/1983	Van		
		EP 0 084 874 A1	08/03/1983	Klesewetter		
		EP 0 101 880	03/07/1984	Preidel et al.		
		EP 0 127 958 B2	04/10/1996	Higgins et al.		
		EP 0 132 790 A2	02/13/1985	Kasielke et al.		
		EP 0 164 180	12/11/1985	Blake et al.		
		EP 0 171 148	02/12/1986	Shanks et al.		
		EP 0 171 239	02/12/1986	Ikeda et al.		

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		Number-Kind Code ² (if known)			
		4,303,887	12/01/1981	Hill et al.	
		4,323,536	04/06/1982	Columbus	
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		4,407,959	10/04/1983	Tsuji et al.	
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		Country Code ⁴ -Number ⁵ -Kind Code ⁶ (if known)				
		EP 0 186 286	07/02/1986	Nylander et al.		
		EP 0 206 218 B1	06/03/1991	Wogoman		
		EP 0 213 343 B2	02/01/1995	Young et al.		
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		EP 0 241 309 A2	10/14/1987	Walton et al.		
		EP 0 244 326 B1	08/18/1993	Colin et al.		
		EP 0 255 291 B1	06/24/1992	Birch et al.		
		EP 0 287 883	10/26/1988	Blatt		

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		Number-Kind Code ² (if known)			
		4,545,382	10/08/1985	Higgins et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		EP 0 359 831	03/28/1990	Nankai et al.		
		EP 0 383 322 B1	02/05/1997	Seshimoto et al.		
		EP 0 417 796 B1	11/23/1994	Ishihara et al.		
		EP 0 470 649 B1	06/02/1999	Unilever et al.		
		EP 0 471 986 A2	02/26/1992	Nankai et al.		
		EP 0 471 986 A3	04/29/1992	Nankai et al.		
		EP 0 471 986 B1	10/18/1995	Nankai et al.		
		EP 0 537 761 A3	02/02/1994	Yoshioka et al.		

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Sheet	5	of	38	Attorney Docket Number	7404-553

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		Number-Kind Code ² (if known)			
		4,711,245	12/08/1987	Higgins et al.	
		4,713,347	12/15/1987	Mitchell et al.	
		4,714,874	12/22/1987	Morris et al.	
		4,731,726	03/15/1988	Allen, III	
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		EP 0 537 761 B1	08/27/1997	Yoshioka et al.		
		EP 0 546 536	06/16/1993	Yenoyama et al.		
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		EP 0 640 832	03/01/1995	Hughes Aircraft		
		EP 0 651 250 A2	05/03/1995	Hyodo et al.		
		EP 0 732 406 A1	09/18/1996	Ikeda et al.		
		EP 0 732 590 A2	09/18/1996	Charlton et al.		
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		4,834,234	05/30/1989	Sacherer et al.	
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		EP 0 859 230	08/19/1998	Setford		
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		EP 0 894 509 A2	02/03/1999	Herman		

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		EP 0 942 278 A2	09/15/1999	Kim et al.		
		EP 0 958 495	11/13/2002	Heller et al.		
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		EP 1 009 850 B1	03/05/2003	Hughes et al.		
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		EP 1 035 216 A1	09/13/2000	Sang et al.		
		EP 1 067 384 A2	01/10/2001	Ohara et al.		

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Application Number	10/688,343
Filing Date	October 17, 2003
First Named Inventor	David W. BURKE
Group Art Unit	1743
Examiner Name	
Attorney Docket Number	7404-553

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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		EP 1 130 390 A1	09/05/2001	Tsuji et al.		
		EP 1 143 245	10/10/2001	Roche		

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				Group Art Unit	1743
				Examiner Name	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		EP 1 147 739 A2	10/24/2001	Essenpreis et al.		
		EP 1 152 239 A1	11/07/2001	Miyazaki et al.		
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Attorney Docket Number	7404-553

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		Number-Kind Code ² (if known)			
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				Filing Date	October 17, 2003
				First Named Inventor	David W. BURKE
				Group Art Unit	1743
				Examiner Name	
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		GB 2 295 676	06/05/1996	McNaughtan		

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				First Named Inventor	David W. BURKE
				Group Art Unit	1743
Examiner Name					
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
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		JP 04-121652	04/22/1992	Okuma		
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		JP 09-043242	02/14/1997	Nishimura		

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		5,658,802	08/19/1997	Hayes et al.	
		5,665,215	09/09/1997	Bussmann et al.	

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		JP 63-111,453	05/16/1988	Nakajima et al.		
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		RU 2180514	03/20/2002	Shmelev et al.		
		WO 81/01794	07/09/1981	Ash et al.		
		WO 83/00926	03/17/1983	Clark		

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First Named Inventor	David W. BURKE
Group Art Unit	1743
Examiner Name	
Attorney Docket Number	7404-553

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
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		5,698,083	12/16/1997	Glass	
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		5,720,862	02/24/1998	Hamamoto et al.	
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		5,727,548	03/17/1998	Hill et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 86/07632	12/31/1986	Nankai et al.		
		WO 89/08713	09/21/1989	Pottgenea		
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		WO 92/07655	05/14/1992	Cox et al.		
		WO 92/15859	09/17/1992	Adrian et al.		
		WO 92/15861	09/17/1992	Grant et al.		

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				Application Number	10/688,343
				Filing Date	October 17, 2003
				First Named Inventor	David W. BURKE
				Group Art Unit	1743
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		WO 92/22669	12/23/1992	Gullick		
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		WO 94/23295	10/13/1994	McAleer et al.		
		WO 94/28414	12/08/1994	Athey et al.		
		WO 94/29705	12/22/1994	White et al.		

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		WO 95/03542	02/02/1995	Scott et al.		
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		WO 97/29847	08/21/1997	McAleer et al.		

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		6,281,006	08/28/2001	Heller et al.	
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		WO 99/13100	03/18/1999	Forrow et al.		
		WO 99/22236	05/06/1999	Heinonen et al.		
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Application Number	10/688,343
Filing Date	October 17, 2003
First Named Inventor	David W. BURKE
Group Art Unit	1743
Examiner Name	
Attorney Docket Number	7404-553

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 28 of 38

Complete if Known

Application Number	10/688,343
Filing Date	October 17, 2003
First Named Inventor	David W. BURKE
Group Art Unit	1743
Examiner Name	
Attorney Docket Number	7404-553

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		6,531,239	03/11/2003	Heller	
		6,531,322	03/11/2003	Jurik et al.	
		2003 0054427	03/20/2003	Phillips et al.	
		6,538,735	03/25/2003	Duebendorfer et al.	
		6,540,890	04/01/2003	Bhullar et al.	
		6,540,891	04/01/2003	Stewart et al.	
		6,541,266	04/01/2003	Modzelewski et al.	
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		6,544,474	04/08/2003	Douglas	
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		2003 0073152	04/17/2003	Phillips et al.	
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		6,551,494	04/22/2003	Heller et al.	
		6,555,061	04/29/2003	Leong et al.	
		2003 0079987	05/01/2003	Hodges et al.	
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		6,558,528	05/06/2003	Matzinger	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 01/84142	11/08/2001	Eden et al.		
		WO 01/88524	11/22/2001	Heller et al.		
		WO 01/92857	12/06/2001	Debreczeny et		
		WO 01/95806	12/20/2001	Moerman		
		WO 01/96596	12/20/2001	Guo et al.		
		WO 02/00112 A2	01/03/2002	Cohen et al.		
		WO 02/054055 A1	07/11/2002	Jin et al.		
		WO 02/057767 A1	07/25/2002	Watanabe et al.		

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Sheet	29	of	38	Attorney Docket Number	7404-553

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		Number-Kind Code ² (if known)			
		6,560,471	05/06/2003	Heller et al.	
		2003 0088166	05/08/2003	Say et al.	
		6,562,625	05/13/2003	Modzelewski et al.	
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		6,565,738	05/20/2003	Henning et al.	
		2003 0094383	05/22/2003	Kermani	
		6,570,390	05/27/2003	Hirayama et al.	
		2003 0098233	05/29/2003	Kermani et al.	
		2003 0098234	05/29/2003	Hasegawa et al.	
		2003 0100030	05/29/2003	Nadaoka et al.	
		2003 0100040	05/29/2003	Bonnecaze et al.	
		2003 0100821	05/29/2003	Heller et al.	
		6,571,651	06/03/2003	Hodges	
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		6,574,425	06/03/2003	Weiss et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 02/057768 A	07/25/2002	Iketaki Kazuo		
		WO 02/057781	07/25/2002	Khan et al.		
		WO 02/058537	08/01/2002	Heller et al.		
		WO 02/06822	01/24/2002	Ratcliffe et al.		
		WO 02/062212	08/15/2002	Moerman et al.		
		WO 02/067768	09/06/2002	Paolini et al.		
		WO 02/070734 A1	09/12/2002	Modzelewski et		
		WO 02/071044	09/12/2002	Modzelewski et		

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		Number-Kind Code ² (if known)			
		6,576,416	06/10/2003	Haviland et al.	
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		2003 0106809	06/12/2003	Kermani et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 02/078512 A2	10/10/2002	Drucker et al.		
		WO 02/078533	10/10/2002	Moerman et al.		
		WO 02/08750	01/31/2002	Black		
		WO 02/08753 A2	01/31/2002	Woodhead et al.		
		WO 02/086483	10/31/2002	Tokunaga et al.		
		WO 02/093152	11/21/2002	Heller		
		WO 02/095355	11/28/2002	Heller		
		WO 02/097418	12/05/2002	Taniike et al.		

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		Number-Kind Code ² (if known)			
		6,605,201	08/12/2003	Mao et al.	
		2003 0150724	08/14/2003	Kawanaka et al.	
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		2003 0155538	08/21/2003	Siepmann	
		2003 0159944	08/28/2003	Pottgen et al.	
		2003 0159945	08/28/2003	Miyazaki et al.	
		2003 0164293	09/04/2003	Hodges et al.	
		6,616,819	09/09/2003	Liamos et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 02/18053 A1	03/07/2002	Churchill et al.		
		WO 02/10728	02/07/2002	Pan et al.		
		WO 02/13966	02/21/2002	House et al.		
		WO 02/13970	02/21/2002	House et al.		
		WO 02/14535	02/21/2002	Yon-Hin et al.		
		WO 02/22855	03/21/2002	Ouyang et al.		
		WO 02/32559	04/25/2002	Stiene et al.		
		WO 02/48707	06/20/2002	Ohara et al.		

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Sheet 32 of 38

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		Number-Kind Code ² (if known)			
		2003 0179440	09/25/2003	Tokunaga et al.	
		2003 0180183	09/25/2003	Fukuoka et al.	
		6,627,057	09/30/2003	Bhullar et al.	
		2003 0187338	10/02/2003	Say et al.	
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		6,656,702	12/02/2003	Yugawa et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 02/49507	06/27/2002	Stiene et al.		
		WO 02/50609	06/27/2002	Matzinger		
		WO 02/103343 A1	12/27/2002	Nakaminami et		
		WO 03/005015	01/16/2003	Bae et al.		
		WO 03/012422	02/13/2003	Cai et al.		
		WO 03/014740 A1	02/20/2003	Nadaoka et al.		
		WO 03/014741 A1	02/20/2003	Takahashi et al.		
		WO 03/015627	02/27/2003	Moerman et al.		

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 03/015629	02/27/2003	Moerman et al.		
		WO 03/021706 A1	03/13/2003	Higuchi et al.		
		WO 03/025257	03/27/2003	Heller et al.		
		WO 03/029804	04/10/2003	Arkray		
		WO 03/032411	04/17/2003	Hodges		
		WO 03/039483 A2	05/15/2003	Cranley et al.		
		WO 03/042679 A1	05/22/2003	Hasegawa et al.		
		WO 03/042680 A1	05/22/2003	Hasegawa et al.		
		WO 03/044513	05/30/2003	Morita et al.		

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		WO 03/048756 A1	06/12/2003	Yamamoto et		
		WO 03/060154 A2	07/24/2003	Iyengar et al.		
		WO 03/067252	08/14/2003	Karinka et al.		
		WO 03/069304 A2	08/21/2003	Iyengar et al.		
		WO 03/083469	10/09/2003	Griffith et al.		
		WO 03/085372	10/16/2003	Mao et al.		
		WO 03/091717	11/06/2003	Neel et al.		
		WO 04/005908	01/15/2004	Ueno et al.		

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Examiner Name					
Sheet	35	of	38	Attorney Docket Number	7404-553

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		Aoki et al., "Quantitative Analysis Of Reversible Diffusion Controlled Currents of Redox Soluble Species At Interdigitated Array Electrodes Under Steady-State Conditions", J. Electroanal. Chem. 256 (1988) 269-282	
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			Application Number	10/688,343	
			Filing Date	October 17, 2003	
			First Named Inventor	David W. BURKE	
			Group Art Unit	1743	
			Examiner Name		
Sheet	36	of	38	Attorney Docket Number	7404-553

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		Koichi, "Measurements of Current-Potential Curves, 6, Cottrell Equation and its Analogs. What Can We Know from Chronoamperometry?" Denki Kagaku ovopi Kogyo Butsuri Kagaku, Vol. 54, no. 6, pp. 471-5 (1986)	
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		Lifescan Owner's Booklet Entitled "The Comfort of Control"	
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		Myland et al., "Membrane-Covered Oxygen Sensors: An Exact Treatment of the Switch-on Transient," Journal of the Electrochemical Society, Vol. 131, pp. 1815-1823 (Aug. 1984)	
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